

## ABSTRACT

A transmitter functioning to monitor either a voltage or a current, or both applied to each of a pair of conductors. A receiver functioning to monitor either the voltage or the current, or both output from each conductor and functioning to output a status. According to the status output, either the voltage or the current, or both applied to the conductors in the transmitter will be controlled. This makes it possible to improve a degree of balance in the receiver while keeping balance in the transmitter, which results in reducing EMC problems both in the transmitter and the receiver.